

WHAT IS CLAIMED IS:

1. A color correction apparatus for correcting, on the basis of color image data representing a color image by a plurality of elemental color elements, said color image data, comprising:

an object pixel summing up means for carrying out summing-up with respect to a fixed-color pixel on the basis of said color image data;

a color adjustment amount computing means for obtaining a color adjustment amount for canceling a difference between the optimum value predetermined for said fixed-color pixel and the result of said summing-up;

a color adjustment amount correcting means for correcting said color adjustment amount on the basis of said fixed elemental color elements of said pixel; and

a color correcting means for color correcting said color image data on the basis of the color adjustment amount corrected by said color adjustment amount correcting means.

2. The correction apparatus according to claim 1, wherein said object pixel summing up means judges, as said fixed color pixel, a pixel in which a hue value obtained on the basis of said color image data is within a fixed range, and carries out summing up with respect to said judged pixel.

3. The correction apparatus according to claim 1, wherein said color adjustment amount correcting means corrects said color adjustment amount on the basis of only addition and subtraction operation of the fixed elemental color elements of each pixel.

4. The correction apparatus according to claim 1, wherein said object pixel

summing up means judges, as said fixed color pixel, a pixel in which a hue value with respect to a memory color is within a fixed range, and carry out summing up with respect to said judged pixel.

5. The correction apparatus according to claim 1, wherein said color adjustment amount computing means computes an average value for every elemental color element of said color image data with respect to each pixel judged as an object pixel, and uses said average value as the result of summing up of said color adjustment amount computing means, and

said color adjustment amount computing means has the optimum value for every elemental color element with respect to the image data to be a fixed color.

6. The correction apparatus according to claim 1, wherein said color correcting means corrects, in controlling a level of the elemental color elements, a tone curve representative of an input/output relation according to said corrected color adjustment amount to carry out color correcting of the color image data.

7. A color correction method for correcting, on the basis of color image data representing a color image by a plurality of elemental color elements, said color image data, comprising:

an object pixel summing up step for carrying out summing-up with respect to a fixed-color pixel on the basis of said color image data;

a color adjustment amount computing step for obtaining a color adjustment amount for canceling a difference between the optimum value predetermined for said fixed-color pixel and the result of said summing-up;

a color adjustment amount correcting step for correcting said color

adjustment amount on the basis of said fixed elemental color elements of said pixel; and

a color correcting step for color correcting said color image data on the basis of the color adjustment amount corrected by said color adjustment amount correcting means.

8. A computer-readable medium having a program of instructions for execution by the computer to perform color correction processing for correcting, on the basis of color image data representing a color image by a plurality of elemental color elements, said color image data, said color correction processing comprising:

an object pixel summing up processing for carrying out summing-up with respect to a fixed-color pixel on the basis of said color image data;

a color adjustment amount computing processing for obtaining a color adjustment amount for canceling a difference between the optimum value predetermined for said fixed-color pixel and the result of said summing-up;

a color adjustment amount correcting processing for correcting said color adjustment amount on the basis of said fixed elemental color elements of said pixel; and

a color correcting processing for color correcting said color image data on the basis of the color adjustment amount corrected by said color adjustment amount correcting processing.

9. A color correction apparatus for correcting, on the basis of color image data representing a color image by a plurality of elemental color elements, said color image data, comprising:

an object pixel summing up device that carries out summing-up with

respect to a fixed-color pixel on the basis of said color image data;

a color adjustment amount computing device that obtains a color adjustment amount for canceling a difference between the optimum value predetermined for said fixed-color pixel and the result of said summing-up;

a color adjustment amount correcting device that corrects said color adjustment amount on the basis of said fixed elemental color elements of said pixel; and

a color correcting device that color-corrects said color image data on the basis of the color adjustment amount corrected by said color adjustment amount correcting device.